

# Artificial Intelligence and the Uncertainty challenge in Fundamental Physics



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## Publication and reuse of ML models in LHC analyses

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With the increasing usage of machine learning in high energy physics analyses, the publication of the learned models in a reusable form has become a crucial question for analysis preservation and reuse. In turn, a lack of appropriate ML design and publication makes reinterpretation of analyses in terms of physics scenarios beyond those considered in the original experimental paper seriously difficult if not impossible. I will discuss recent efforts towards the preservation and reuse of ML-based LHC analyses together with guidelines for reusable ML models, which originated from the LHC Reinterpretation Forum and the 2023 PhysTeV workshop in Les Houches.

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